

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/786,817	817 02/24/2004 7590 11/13/2006		Leo W. Davis	DTIN-27,616US	5123
31782				EXAMINER	
CHAUZA & PO BOX 140	& HANDLEY, 0036	, L.L.P.	•	SCHWARTZ, CH	HRISTOPHER P
IRVING, TX 75014				ART UNIT	PAPER NUMBER
				3683	

DATE MAILED: 11/13/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applica	ation No.	Applicant(s)				
Office Action Summary			10/786,817 DAVIS, LEO W.					
	Office Action Summary	Examir	ner	Art Unit				
			pher P. Schwartz	3683				
Period fo	The MAILING DATE of this communic or Reply	ation appears on	the cover sheet wi	ith the correspondence add	dress			
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FO CHEVER IS LONGER, FROM THE MA nsions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commu period for reply is specified above, the maximum state re to reply within the set or extended period for reply we reply received by the Office later than three months afted patent term adjustment. See 37 CFR 1.704(b).	AILING DATE OF of 37 CFR 1.136(a). In no unication. utory period will apply and will, by statute, cause the a	THIS COMMUNIC o event, however, may a red d will expire SIX (6) MON application to become AB	CATION. reply be timely filed ITHS from the mailing date of this co				
Status								
1)	Responsive to communication(s) filed	ton						
'=		b)⊠ This action is	s non-final					
′=	·=							
-,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims		444,10, 1000 C.E					
		nlication						
-	Claim(s) <u>1-20</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
· · · · · · · · · · · · · · · · · · ·	Claim(s) <u>1-4,8,9,12,13 and 16-18</u> is/a	re rejected						
	Claim(s) <u>5-7,10,11,14,15,19 and 20</u> is	*						
	Claim(s) are subject to restricti		. roquiromont		,			
٠.	are subject to restrict	on and/or election	r requirement.					
Applicati	on Papers							
9)[The specification is objected to by the	Examiner.						
10)[The drawing(s) filed on is/are:	a) accepted or	b) objected to I	by the Examiner.				
	Applicant may not request that any object	ion to the drawing(s	s) be held in abeyan	ice. See 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including t	he correction is requ	uired if the drawing((s) is objected to. See 37 CF	R 1.121(d).			
11)[The oath or declaration is objected to	by the Examiner.	Note the attached	Office Action or form PT	O-152.			
Priority u	ınder 35 U.S.C. § 119			·				
_	Acknowledgment is made of a claim fo ☐ All b)☐ Some * c)☐ None of:	or foreign priority ι	ınder 35 U.S.C. §	119(a)-(d) or (f).				
	1. Certified copies of the priority d	ocuments have be	een received.		۸			
	2. Certified copies of the priority d			pplication No	11			
	3. Copies of the certified copies of		•	· ·	Stage			
	application from the Internation				`\'			
* S	ee the attached detailed Office action	for a list of the ce	rtified copies not	received.				
·				, , ,	11/ Mur			
Attachment	(s)			()	()			
1) 🔯 Notice	e of References Cited (PTO-892)	•	4) Interview S	summary (PTO-413)	Ma,			
	e of Draftsperson's Patent Drawing Review (PT	O-948)	Paper No(s		<i>y</i> v			
	nation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date		5) Notice of In 6) Other:	nformal Patent Application				

Art Unit: 3683

DETAILED ACTION

Election/Restrictions

Applicant's response filed August 28, 2006 has been received and considered.
 The election requirement made in the previous Office Action has been withdrawn.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 12-15 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Regarding claim 12 it is unclear from the specification what "seal" applicants are claiming.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-4 rejected under 35 U.S.C. 103(a) as being unpatentable over Rubel in view of Gordaninejad et al..

Application/Control Number: 10/786,817

Art Unit: 3683

Regarding claim 1 Rubel, as clearly can be seen in the drawings, shows a suspension strut comprising a primary fluid chamber 6, a secondary fluid chamber 5, a displacement member 7,8, and a "compressible ER fluid" (since all fluids are compressible to some degree — even if small). Note the sleeve at 9 or 11 and the apertures at 22 and 33-35. Although not applied see the similarly structured reference to Delchev and note the location of the apertures may be changed or altered in Rubel.

Lacking in Rubel is a showing of an electromagnetically controlled fluid.

It is notoriously well known that ER and MR fluids are interchangeable in the art of motor vehicle suspension systems. Although not applied see Schwemmer et al. claim 5.

The reference to Gordaninejad et al. is relied upon to provide an example of an MR fluid type damper.

It would have been obvious to the ordinary skilled worker in the art to have modified the damping apparatus of Rubel to include electromagnetic coils or permanent magnets so that it could use an MR fluid as the damping medium. Obviously the type and viscosity of the fluid (i.e. particle, size and type) could be varied to meet predetermined damping characteristics.

Regarding claims 2-4 these requirements are fairly suggested by the references above.

6. Claims 8,9,12,13,16-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rubel in view of Gordaninejad et al. and Davis '341.

Application/Control Number: 10/786,817

Art Unit: 3683

Regarding claims 8-9,12,13,16-18 Rubel in view of Gordaninejad et al. are relied upon as explained above.

The patent to Davis shows it is known that a device such as Rubel could be modified to be used in place of the struts 28 in a vehicle suspension system.

Allowable Subject Matter

7. Claims 5-7,10,11,14,15,19,20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The references cited and those cited by applicants have been relied upon at least in part for reaching the conclusions of obviousness above.

 Consequently it is recommended these references be reviewed before preparing a response to the action above.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher P. Schwartz whose telephone number is 571-272-7123. The examiner can normally be reached on M-F 10:30-7:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jim McClellan can be reached on 571-272-6786. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3683

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Cps 11/08/06